TID/TAB - 165/64 10 December 1964

MEMORANDUM FOR: Assistant for Plans and Development Staff

SUBJECT:

Point Transfer Device

It is requested that the present contract with modified so that the Point Transfer Device that they are manufacturing for NPIC will have an off-line and on-line capability. The present contract calls for an on-line capability only. The reason for this request stems from the fact that the instrument will be used for the solution of problems other than those programmed in the real-time system.

Chief, Technical Analysis Branch

25X1A

25X1A

Distribution:

Orig. - Asst. for P&DS

1 - Chief, TID 2 - Chief, TID/TAB

**Declass Review by NIMA / DoD** 

29 October 1964

	MEMORANDUM FOR: Chief, Support Staff, MPIC	
	ATTREPTON : Chief, Logistics Branch  SHIPMENT : Shipment of GFE to end Modifications of Existing Equipment Manufactured by	25X1A
	1. 22 is requested that one each Control Panel, Model 2025A, serial #2 and Synchronizer, Hodel 2027A, serial #2 be shipped to:	
25X1A	2. This equipment is being returned to as GFS to be	25X1A
	modified to the required standards will modify the Synchronizer at no cost to the Government. The cost of modifying the Control Penal to incorporate solonoid hold ewitches will be per 25X penal.	25X1A
25X1A	3. Thus far, a total of six systems have been purchased from incorporating the new solenoid held switches. On evaluation of the first unit, it was determined that it would be necessary to use solenoid held residue switches. This change is for the convenience of the Covernment as solenoid held switches were not specified in any of the contracts.	
25X1A	6 each Control Panels, Hodel 2025A, at each to 25X	25X1 <i>F</i>

Approved For Release 2002/09/03 : CIA-RDP78B04747A001200040001-4

25X1A 25X1A	Subject: Shipment of GVE to and Modifications of Existing Equipment Manufactured by	
25X1A 25X1A 25X1A	are being held at awaiting this action, the fifth is now at MFIC; to be returned to and the sixth will be returned to when the first modified panel is received at MFIC.	
5X1A 5X1A	5 discussed this action with the contracting officer at and agreement has been reached on handling the modification in the manner described above.	
** <b>**</b> **	6. The modified control panels are consigned as follows:	
	3 - PAG 2 - PAG 1 - TAG	
	Accounts of these divisions should be charged with the cost of undiffication.	
	Catef, Development Brouch, FADS	25X1 <i>A</i>
	Distribution: Orig. & 1 - Addressee  1 - PAG 1 - PID 1 - TID	

October 23, 1964

#### DIGITAL READOUT COUNTERS

25X1A		25X1A
	The Digital Readout Counters convert measuring engine readouts to computer inputs. Three 2-axis counters, one 4-axis counter, and spare boards are presently on order from	25X1A
25X1A	The first 2-axis system of this order was shipped September 30 and there were some problems with the computer interface.  engineer, cleared up all the interface problems by trouble shooting in your shop on Tuesday, October	
25X1A	13. Some changes were required on one or two of the circuit boards which accomplished on the delivered unit on site. When he got back he also changed all the other units in the following the following on the complex delivered on	25X1A
25X1A	a previous contract will also need to be changed. will send back one and will send the other to to to the change.	25X1A
Basic Control of the	In operating the counter with the new	25X1A
25X1A	The first 2-axis system already delivered is to be sent back to for the switch change. The second 2-axis system will be completed next week and is scheduled for shipment Friday, October 30. It will include the circuit changes noted above and the solenoid hold-down switches.	
	The third 2-axis system is ready to start check out and the 4-axis system is in final assembly. The spare circuit boards are complete and will be shipped next week. Circuit boards for all units are complete. Now that both the counter input interface and output interface have been tested and correct performance established can schedule firm delivery dates for the balance of the units. He is writing a contract letter requesting this delivery change.	

#### Approved For Release 2002/09/03: CIA-RDP78B04747A001200040001-4

	Digital Readout Counters -2- October 23, 1964
25X1A	VIII resuire another to the
25X1	convert the 580 Comparator from a punch card to an on-
25X1A	card capability to the punch
25X1A	for the computer can provide this rather easily by adding a card-punch coupler to the present 2-axis counter design. The balance of the counter system will be the same as and interchangeable with the 2-axis counters presently on order and already delivered.
25X1A ~	The punch coupler will have a selector switch so that the operator can elect to transmit in real time to the computer or to operate the limit card punch and typewriter. In order to define the punch coupler, needs to know the punch card format being used. In order to design the punch coupler and insure compatability, he needs the instruction manual for your IBM card punch.

25X1A

Approved For Release 2002/09/03 : CIA-RDP78B04747A001200040001-4 **ILLEGIB** 

17 August 1964

25X1A

Digital Readout Counters

#### I believe the above information correctly indicates what 25X1A 25X1A is building and what wants delivered. The situation was hopelessly confounded last week when erroneously told me the opposite. He had said 25X1A on August 10 that the 2-axis was being built for the Optosyn heads and the 4-axis was being built for the head. This information naturally confused 25X1A 25X1A when I reported it in my last report. As of this morning (Monday), \_\_\_\_\_ had not received the two data phones or the data phone data sent by \_\_\_\_\_ 25X1A 25X1A had, however, obtained the data from 25X1A last Friday. the local rep. 25X1A 25X1A cannot tell as yet what the interlock problem is. Iney may, however, find the answer when they get the data phones. They can undoubtedly find the problem when they operate the 2-axis system now being completed with a data phone. Sending the data phones to was a sound action in my opinion. 25X1A For the first 2-axis system, the counters were completed and are being checked out by \_\_\_\_\_\_ The control panel is completely assembled and wired. The synchronizer 25X1A wiring is nearly done and will be completed by tomorrow. Chackout of the chassis will continue through the week.

	Digital Readout Counters August 10, 1964	
•	25X1A	
	will be used with the reading head and	
	that is a different story.	
		051/44
25X1A	The pulse data which received from	25X1A
25X1A	did not correspond to the data which received from who is Chief Engineer at	25X1A 25X1A
25X1A	Further told that the pulse	25X1A 25X1A
25X1A	unit in-house	25X1A
	at demand from anything austral   SUSDECTS CHAL	25X1A
25X1A		
	circultry to make it operate like a Class C amplifier with a constant pulse output. It appears that the head	
	output pulse may be varying with head pickup conditions	
~	like a Class A amplifier.	
_25X1A	feels that making a counter, which counts pulses from a signal generator, count pulses from a transducer	
	-L	
• • •		
	a computer is a much more difficult interface.	
25X1A	will have to get clarification of the pulse	
25X1A	The Stille Engle Internative	
25X1A	will be meaded by no later than September 17, 1704;	
	in order to make an October 1 delivery.	
	The cable lengths for the 4-axis system are to be specified	
25X1A	THE PARTY AND LANGED INTERPRETARY OF THE PARTY OF	
—25X1A	by September 1, 1964, in order to fit into their	25X1A
	manufacturing schedule. advised to make the cables 15 ft long if final information was not	25X1A 25X1A
	available in time.	23X IA
	Since all the counters were contracted for at about the	
	same time, the price was reduced about on trom the	
	couple. The control of the control o	
	Except for the problems generated by the	25X1A
25X1A		
	by the cuscomer. He says that it is unusual that they	
	are brought in on a job early enough to have adequate delivery time. I would consider that a compliment to	
05V4A	delivery time. I would consider that a compriment to	25V4A
25X1A		25X1A
	I strongly recommend that and possibly visit as soon as they have checked out the	25X1A
25X1A 25X1A	wate inchange preferably sometime around	
25X1A 25X1A	August 22. It is important that they discuss the pulse	
ZUNIA		

	Digital Readout Counters August 10, 1964	
	matching interface solution with	25X1A
25X1A 25X1A	indicated that was intelligent and knowledgeable. He understood the circuitry and asked intelligent questions. A second visit would probably be	25X1 <i>A</i>
25X1A	valuable after has worked on the actual unit.	
	ting padigging telekalik di kalendaran perengi di perentagian dan kepadah berberakan berberakan di perengian Tangging perengian di perindakan perengian berberakan perengian perengian terberakan berberakan berberakan ber Tangging perengian berberakan perindakan perengian perengian berberakan berb	
<b>~</b> ₩		25X1A

25X1A Approved For Release 2002/09/03 : CIA-RDP78B04747A001200040001-4	
	25X1A
August 10, 1964	
@ 7ilo	•
DIGITAL READOUT COUNTERS	
25X1A	25X1A
Project Engineer	
The Digital Readout Counters manufactured byare used to count pulses from a measuring engine reading head. Two things are done with the count:	25X1A
A. The count is converted to a decimal digit reading and displayed to the operator ontube counters.	25X1A
B. The count is stored in a synchronizer buffer and transmitted to a computer, via dataphone, as binary pulses in a standardized coded sequence.	
The counter usually consists of four chassis:	
A. A control panel	
B. A Synchronizer	
C. An x-axis counter	
D. A y-axis counter	:
Additional counter chassis may be added to add axes, and a 4-axis counter will have two additional chassis.	
There are currently on order three 2-axis systems and one 4-axis system and spares.	
The 2-axis counters are in work and delivery of the first one will be on or about August 22 as indicated in my previous report. All the circuit boards are complete for all three systems. Wiring of counters and control panel is complete for the first unit and checkout will start today. Wiring of the first synchronizer started today and will take about a week. The circuit boards on the spares contract will be delivered concurrently with the first 2-	
The information which required by August 1 was received verbally and did not hold up the 2-axis  25X1A systems indicated the 2-axis systems would be used with the Optosyn reading heads so will include the lamp excitation power and the 5 Velt power from connectors on the synchronizer. The 4-axis counter	25X1A

3 200	Approved For Release 2002/09/03 : CIA-RDP78B04747A001200040001-4	25
,		
	3 August 1964	
5X1A		ŧ
25X1A	Dear	4
••	In response to your request for clarification on the cable lengths required and input signals furnished for the equipment which you are now under contract to build for us, the following information is respectfully submitted:  1. For the two counter systems the following is required:	
25X1A 25X1A	a. The input signal will be provided from the Model 405 Comparator. Attached is a specification sheet for the pulse shape as provided by A pallse shape sheet is not available to me at this time. However, it is identical to the pulse which is providing to the other counters purchased directly from you.	25
	b. The control panel to counter and synchronizer cable length is to be five feet.	
	c. The counter to synchronizer cable length may vary anywhere between two to five feet.	
<del>-</del>	d. No imput cables are required.	
	a. No accessory power is required.	
	2. For the four counter system the following is required.	
<1 25×14	a. The input signal will be provided by a shaft encoder through a electronic module. This input is the same as the other two counter systems you recently shirmed to and additional information is available	2

spedifications.

25X1

#### Approved For Release 2002/09/03: CIA-RDP78B04747A001200040001-4

3 August 1964

- b. The control panel to synchronizer cable length required is twenty feet.
- c. The counter to synchronizer cable length required is twenty feet for two of the counters and fifteen feet for the remaining two counters.
- d. No cables are required for the input preset, or reset functions.

If this information is not adequate please contact me as soon as possible.

Sincerely yours,

25X1A

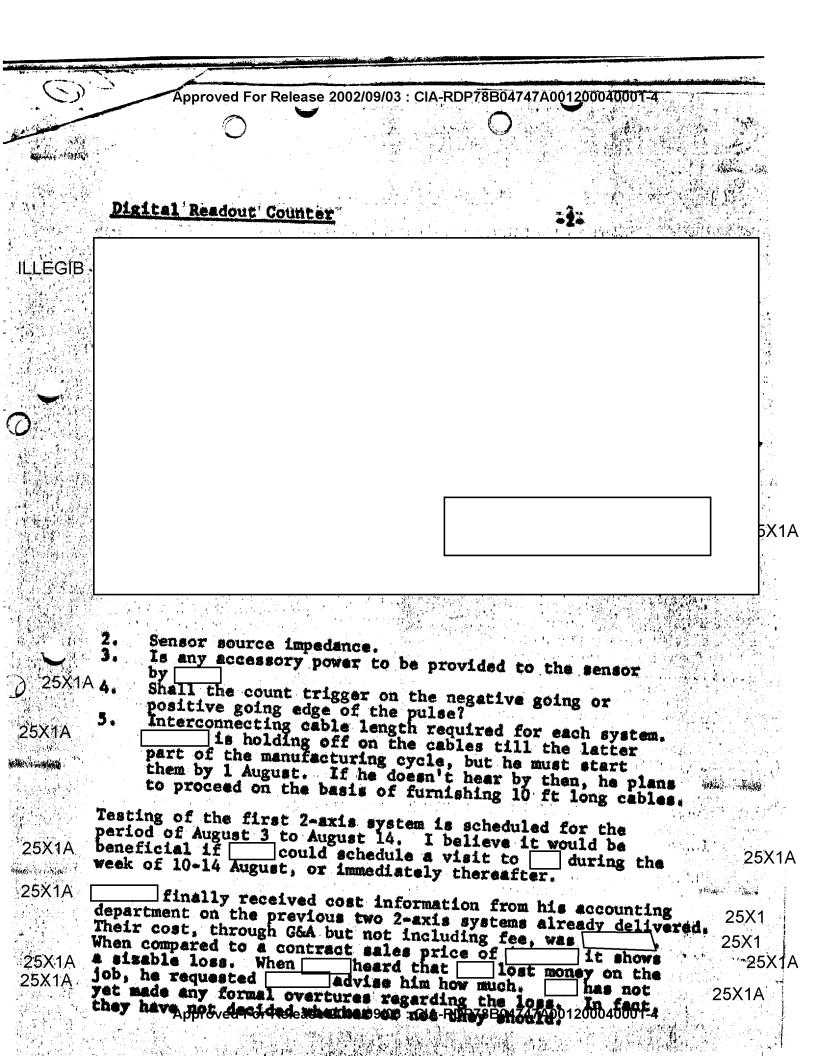
JR:mb

### Approved For Release 2002/09/03: CIA-RDP78B04747A001200040001-4 25X1A GE 3.8100 TWX 516-433-9690 ltr OD-126 dtd 7/20/64 Enclosure (1) to July 20, 1964 25X1A 405A-102 CD-104 AKC:rf SPECIFICATIONS 25X1A COUNTERS TO INTERFACE WITH 25X1A MODEL 405 COMPARATOR A AND B SIGNAL REQUIREMENTS Amplitude of Pulses Positive going level change from (-) 9.6 to (-) 7.0 volts Pulse Duration 1 microsecond up to six microseconds, to operate between frequencies ranging from one pulse an hour to 100,000 pulses per second Rise Time Can accept rise time up to five microseconds Input Impedance 10,000 ohms minimum Type of Count Bi-directional and non complimentary Direction of Count Normal or reversed Input Power Requirements 115 volt AC, 50-60 cycles per second Accuracy Absolute Stability

The counter shall not generate any internal pulses
Approved For Release 2002/09/93: CHARDR 8BG474FA001200040000194 more
which would counts in a twelve (12) hour period

		Separale (	god)	July 24, 19	64	
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					(2)	. 2
	, t	· . · · .			14.5 14.5 14.5 14.5	
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X1A he wo	wild like i	in writing.	He doesn't	t trust his me	mory on	2
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	ision.					
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	h is Satur	day, he Wil irmation th	1 make the at the coun	ters will be t	ong.	
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Approved For Release 2002/09/03 : CIA-RDP78B04747A001200040001-4



Approved For Release 2002/09/03 : CIA-RDP78B04747A091200040001-4 Digital Readout Counter 25X1A 25X1A that 25X1A on July 24 to At request of 25X1A maintenance was scheduling a visit to 25X1A discuss counter electronics with said that would be O.K. but he did not know 25X1A vacation schedule. If there is a conflict, 25X1A 25X1A advise us. indicated he knew about the problem with the new input amplifier card he had sent to said it could be easily corrected by adjusting 25X1A 25X1A 25X1A He has instructed and authroised the bias which should eliminate the trouble. 25X1A

	Approve	ed For Release 2002/09/03: CIA-RDP78B04747A001200040001/4 new  CONFIDENTIAL  29 April 1364  Fire  The property of the property	Joseph 25X1
25 <u>X</u> 1A 25X1A 25X1A 25X1A	the development  the development  Fils Reader  made on both us  for spare parts  to what printer  2.  recommended sp  equipment. In  has been exami- requirements.	Chief, Logistics Branch  Purchase of Spare Perts  25X1A 25X1A  10 has contracted with  and fabrication of digital readout equipment for the and the three of chip Comparator. Delivery has been and the three of the contract as the time of contract as due to the lack of knowledge at the time of contract as described the area would be used.  Was requested to furnish a series between and is considered acceptable to meet our maintenance and and is considered acceptable to meet our maintenance are parts as listed for a total of the final parts and page.  These parts are parts as listed for a total of the parts and page.	25X1
	Actaciment	Bevelopment Branch, Pales	25X1A

CONTINUE

Excluded from automatic downgrading and necks self-online

• *	A President of the second	
Approved For Release 2002/09/03	3 : CIA-RDP78B04747A001200040001-4 25X1/	
_	Post Office Box 6788 (Nel	u U
MAGIZ ORDER	Fort Davis Station  Washington, D. C. 20020	<b>/</b> *
NEGOTIATED TASK ORDER	P+D	5
REGISTERED	6 JAN 1965	
	·	
Subject : Task Order No. 99 Basic Contract No.		
Gentlemen:		
hereto, pursuant to statutory author	rity, as or y during y	
It is agreed that the Contract services to perform the scope of wor shall comply with such other provi-	tor shall provide the necessary material and k as set forth in the attached Schedule and sions thereof, as may be applicable.	
The rights and obligations of governed by this Task Order and the are incorporated herein by reference any inconsistency between said Bas	f the parties hereto shall be subject to and ne provisions of subject Basic Contract which	Ì
Sitati control.		7 <sub>25X1</sub>
	·	
	1 -ith and the prior written	25X1
Costs in excess of this amount sha authorization of the Contracting Of	il not be incurred without the prior written ficer.	
		25X1
or before 11 August 1905.		
		?- r-
EXECUTED:	Very truly yours	
	THE UNITED STATES OF AMERICA	
	<u></u>	
<b>-</b> •	Contractive of Attack	25X1A
TITLE		
	Certified under DMS Regulation No. 1	
	U.S. Government Classified Contract No.	
	,,,,,,,,,,,	
	Subject: Task Order No. 99 Basic Contract No.  Gentlemen: This Negotiated Task Order is hereto, pursuant to statutory author It is agreed that the Contract services to perform the scope of wor shall comply with such other provided by this Task Order and the are incorporated herein by reference any inconsistency between said Bases shall control.  Costs in excess of this amount shall authorization of the Contracting Office It is requested that you exert ain one copy for your records and signed within ten (10) days from EXECUTED:	NEGOTIATED TASK ORDER  REGISTERED  Subject: Task Order No. 99 Basic Contract No.  Gentlemen:  This Negotiated Task Order is entered into by and between the parties hereto, pursuant to statutory authority, as of 5 January 1965.  It is agreed that the Contractor shall provide the necessary material and services to perform the scope of work as set forth in the attached Schedule and shall comply with such other provisions thereof, as may be applicable.  The rights and obligations of the parties hereto shall be subject to and governed by this Task Order and the provisions of subject Basic Contract are incorporated herein by reference and made a part hereof. To the extent of any inconsistency between said Basic Contract and this Task Order, the latter shall control.  Costs in excess of this amount shall not be incurred without the prior written authorization of the Contracting Officer.  The work to be performed under this Task Order shall be completed or before 11 August 1955.  It is required that you execute all copies of this document. Please re tain one copy for your records and return the original and one copy to the under signed within ten (10) days from the date of your receipt thereof.  EXECUTED:  Very truly yours  THE UNITED STATES OF AMERICA  Contracting Unicer  Defense Order rating Do- C9 Contracting Officer.  Contracting Unicer  Defense Order rating Do- C9 Contracting Officer.

This material contains information affecting the National Defense of the United States within the meaning of the espionage laws, Title 18, USC, Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

(SCHEDULE)

CONTRACT/TASK C Contract No.

#### SCOPE OF WORK:

The Contractor will perform a study in Semi-Automatic Recognition with Holograms in accordance with the Contractor's "Proposal for Automatic Image Recognition by Coherent Optical Techniques", dated 28 August 1964, and "Technical Proposal for Automatic Image Recognition by Coherent Optical Techniques", dated 27 August 1964, said proposals being incorporated herein by reference and made a part of this Contract.

#### DELIVERABLE ITEMS:

- a. Monthly Narrative Reports (five (5) copies) to include the following:
  - 1. Progress of work to end of period,
  - 2. Problem areas encountered,
  - 3. Projected work for next period,
  - 4. Status of fund expenditures to end of period,
  - 5. Confirmation of any verbal committments and/or agreements with the Technical Representative of the Contracting Officer during the reporting period.
- b. Final Report.

#### PERIOD OF PERFORMANCE:

The period of performance for this Task Order shall begin on 5 January 1965 and terminate on 11 August 1965.

#### NON-PUBLICITY:

It is a specific condition of this agreement that the Contractor shall not use or allow to be used any aspect of this agreement for publicity or advertisement purposes. The Contractor may request a waiver of the foregoing but shall not deviate therefrom unless so authorized in writing by the Contracting Officer.

NAME OF CONTRACTOR

25X1A

#### NOTICE

This material contains information affecting the National Defense of the United States within the meaning of the Espionage Laws, Title 18, U.S.C. Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

GROUP 1

EXCLUDED FROM AUTOMATIC DOWNGRADING AND DECLASSIFICATION

	·
Approved For Delegge 2002/0	9/03 : CIA-RDP78B04747A991209040991-43 Pages
ADDIOVED FOR REJEASE ZUUZU	3/U3 - 5//- REP-7-6-DU/17-46-7-00-12-000-4-00-1-4:
	Page 2 OI 3 Pages

· (SCHEDULE)

Contract/Task Order No.

25X1A

Contract No.

SECURITY

All work under this Task Order shall be UNCLASSIFIED.

In the event any question may arise during the preliminary phases of the work and/or research concerning the security of the technical aspects i.e., security classification of various component parts and/or related reports connected thereto, the Technical Representative of the Contracting Officer is authorized to furnish security guidance during this interim period.

This is only to be considered an authorized expedient and efficient means of resolving technical security problems by the Technical Representative of the Contracting Officer on the spot and is not to be construed as a waiver of the Contractor's responsibility to request formal written notification and/or authorization from the Contracting Officer prior to effecting any changes in over-all security classification of the contract, or item and/or reports being developed thereunder or the Contractor's Security Requirements, as agreed.

The association of the sponsor with the work being produced under this Task Order is classified CONFIDENTIAL. This classified information and any other classified information which may be specified in the first paragraph of this Security Article, will be divulged only on a need-to-know basis and then only to those who have been authorized in writing by this Government component to have access to classified information.

Correspondence originated by the Contractor and/or other data to be submitted hereunder, the contents of which contain classified information or refer to the number of this Task Order and/or contract or the name and/or address of the Contracting Officer, shall be stamped by you with the classification of CONFIDENTIAL.

#### REPORTS

A Final Report, manuals, drawings and similar data as may be required under this Task Order, shall be submitted at such time and in such format as may be specified by the Technical Representative of the Contracting Officer or as may be otherwise set forth in the Scope of Work Article of this Schedule. In addition, Technical Progress Reports should be prepared in the manner normally practiced by you and submitted directly to the Contracting Officer's Project Engineer in accordance with the engineer's instructions. A copy of the Progress Report should be mailed directly to the Contracting Officer.

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Name of Contractor	ł .
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#### NOTICE

This material contains information affecting the National Defense of the United States within the meaning of the Espionage Laws, Title 18, U.S.C. Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

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		Page of	3 Pages 3
(SCHEDULE)	Contract/Task	Order No.	
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#### SHIPPING INSTRUCTIONS:

Any items to be delivered under this Task Order shall be delivered FOB Destination to whatever location within the continental limits of the United States as may be later stipulated by the Contracting Officer.

All deliverable items, if any, shall be packaged and crated if applicable, in accordance with the Contractor's best domestic commercial practice or as further amplified by auxiliary specific instructions of the Contracting Officer.

In the event any material or items which may be concerned hereunder are, or may later become SECRET or CONFIDENTIAL and when the size or weight of such material or items classified SECRET or CONFIDENTIAL makes shipment by registered mail impracticable, commercial shipment should be made only by the Railway Express Agency "Protective Signature Service." The material must be securely crated and banded and prior to shipment the contractor shall advise the Contracting Officer of (1) the date the material will be shipped, (2) the approximate date of arrival, and (3) the approximate weight, size, and number of cartons. Bulk shipments of TOP SECRET material shall be made only in accordance with the specific instructions which will be furnished the Contractor by the Contracting Officer upon notification that the material is ready for shipment.

#### INSPECTION:

Inspection during the course of the Task Order as well as the final inspection and acceptance of deliverable products, if any, hereunder shall be made by the technical representative of the Contracting Officer. Final acceptance of items deliverable hereunder, if any, shall be made after proper inspection at the FOB point designated in accordance with the stipulations of "Shipping Instructions" above.

Name of Contractor			25X1A		

#### NOTICE

This material contains information affecting the National Defense of the United States within the meaning of the Espionage Laws, Title 18, U.S.C. Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

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#### Approved For Release 2002/09/03 : CIA-RDP78B04747A001200040001-4

C-O-N-F-I-D-E-N-T-I-A-L

#### Internal Information:

Reqn. No. 5500-8600-65  Voucher No. 65-100, 314  Proc. Chgbl. 5155-4100  Reqn. cy. to NPIC/  Contract No.  Task Order No. 99
CONTRACTOR'S MAILING ADDRESS:
CONTRACTING OFFICER'S ADDRESS:
I CERTIFY THAT FUNDS ARE AVAILABLE: Charge to Allotment No. 5155-4100 Obligation Reference No. 5500-8600-65 /s/

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(When Filled In) Approved For Release 2002/09/03 co@IA-RDP78B04747A0d 1200040001-4 CONTRACT INSPECTION REPORT 25X1A TO: 1 Nov 64 INSPECTION REPORT NO. (If final, so state) ENGINEERING SECTION/CB/PD/OL ESTIMATED COMPLETION DATE Dec. 64 NAME OF CONTRACTOR 25X1A TYPE OF COMMODITY OR SERVICE Point Transfer Device Electronic Readout THE CONTRACTOR WILL PROBABLY REMAIN WITHIN ALLOCATED FUNDS YES NO IF ANSWER IS "NO" ADVISE RECOMMENDATION AND/OR ACTION OF SPONSORING OFFICE, ON THE CONTRACTOR IS ON SCHEDULE REVERSE HEREOF. IF KNOWN, INDICATE MAGNITUDE OF ADDI TIONAL FUNDS INVOLVED. PER CENT OF WORK COMPLETED HAS AN INTERIM REPORT, FINAL REPORT, PROTOTYPE, OR OTHER END ITEM BEEN RECEIVED FROM THE CONTRACTOR DURING THE PERIOD? YES NO (If yes, give details on reverse side.) K No HAS GOVERNMENT OWNED PROPERTY BEEN DELIVERED TO CONTRACTOR DURING THIS PERIOD? (If yes, indicate items, quantity, and cost on reverse side.) OVERALL PERFORMANCE OF CONTRACTOR BELOW AVERAGE 7. UNSATISFACTORY ABOVE AVERAGE OUTSTANDING BARELY ADEQUATE AVERAGE EXCELLENT IF OVERALL PERFORMANCE OF CONTRACTOR IS UNSATISFACTORY OR BARELY ADEQUATE, INDICATE REASONS ON REVERSE SIDE. RECOMMENDED ACTION WITHHOLD PAYMENT PENDING SATISFACTORY PERFORMANCE CONTINUE AS PROGRAMMED OTHER (Specify) IF TERMINATION IS RECOMMENDED OR IF THIS IS A FINAL REPORT ATTACH COMMENTS IN NARRATIVE FORM ON CONTRACTOR'S PERFORMANCE AND CERTIFY THAT ALL DELIVERABLE ITEMS UNDER THE CONTRACT HAVE BEEN RECEIVED. THESE INCLUDE, WHERE APPLICABLE, THE FOLLOWING: DOES NOT REC'D DOES NOT ITEM APPLY REC'D APPLY ITEM MANUALS PROTOTYPES FINAL REPORT DRAWINGS AND SPECIFICATIONS SPECIAL TOOLING PRODUCTION AND/OR OTHER OTHER GOVERNMENT PROPERTY END ITEMS DATE OF LAST CONTACT WITH CONTRACTOR 13 Oct. 64 DIVISION CHATURE OF INSPECTOR 25X1A 25X1A INSPECTOR'S EXTENSION

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Taken from trip report 17-25 Sept. 1964

5X1A	• • • • • • • • • • • • • • • • • • •
	On the moring of 21 Sept. and I made an inspection visit to
25X1A	to review the progress on the counter outputs
	for the Chip Comparators and Point Transfer Device. When we arrived they
	had the output synchonizer of the first unit this connects for wiring
	changes. They have done some minor redesign to improve the error and
	acknowledge circuits. In doing so they have eliminated two boards.
25X1A	After taking on a brief plant tour they had the unit reassembled
	and I observed a partial checkout of the units. Hooking the two
	Dataphones up to the unit we were able to observe the message on the remote
	Dataphones output. By disconnecting all the Dataphone ground connections
	we simulated a signal similar to that which I have observed here on the
V	unit now on the third floor. When the grounds were reconnected the signal
	is considerably clearer. To complete the checkout they plans to check
	the message at the remote locator character by character. Shipment of
	this unit is scheduled for 2 October 1964.

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CONFIDENTIAL TID/TAB - 64/64
1 April 1964

MEMORANDUM 1	FOR	THE	RECORD
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SUBJECT: Stereoscopic Foint Transfer Device Modified for Digitized Readout

25X1A

1. and TAB members are concerned with some of the proposed design features associated with the modification of the 522 Stereoscopic Point Transfer Device. This concern stems from TAB's desperate need for a flexible and accurate digitized stereo comparator that will adequately meet current requirements for stereoscopic measurement.

2. Below are listed the design features that are considered controversial ILLEGIB and therefore debatable:

- a. The present proposal calls for precision ground, ball, lead screws with a 2 1/2 mm pitch and a system accuracy of 2 1/2 microns plus 0.005% of the distance traveled. It is believed that this degree of system accuracy will be hard to meet with the proposed screws. This belief is supported by discussions with several authorities on comparator accuracy, i.e., the accuracy claims by the manufacturer for a ground, ball, lead screw cannot be met. TAB, therefore, is requesting a more detailed study, analysis and documentation in order to guarantee a system as accurate as claimed.
- b. The present proposal calls for complete control of the measuring mark of the stereo comparator by a multicontrol joystick. It is believed that this proposed feature would greatly decrease the versatility and flexibility of the instrument. The amount of time consumed and the degree of difficulty needed in the final positioning of the reticle over a point is much greater than that required with handwheels. The stereo comparator should be equipped with handwheels for rapid final, both pointing as well as a joystick for rapid film traversing.
- d. There are, of course, other features that are of interest and that should be analyzed more closely, for example; the type and size of reticle, work space, adjustment of vacuum system, drift-free zoom control, trouble-free loading, etc. It is appreciated that these features are being adequately dealt with by however, designated

25X1A

GROUP 1

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## CONFIDENTIAL

25X1A

TID/TAB - 64/64 Page 2

25X1A

TAB personnel would like to be able to inspect the development of the product under a more accelerated schedule in order to surface any controversy in a more timely schedule.

	SIC	ENED
	Chief, Techni	cal Analysis Branch
Distribution:  Orig - Chief/TID  1 - Asst/Plans and Development/A  1 - TAB/AS  1 - TAB/PS  1 - TID/TAB	ttention	25X1A
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# 25X1A Approved For Release 2002/09/03 : CIA-RDP78B04747A001200040001-4

SECRET (When Filled In)

## TECHNICAL BACKGROUND PROCUREMENT INFORMATION

. 1	Name and address:
. I	Evaluation of previous performance: Highly satisfactory
rie:	f description of this procurement: Four exis bidirectional counter for
	incorporating in the point transfer comparator.
	Estimated total amt.
Α.	Deliverable items: Four bidirectional counters, one output
	synchronizer, one control panel, three manuals and spare parts
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	land Woff the shelf" or slightly
В.	Is this procurement for other than a standard, "off the shelf" or slightly modified commercial item? If "yes", is it anticipated that any more of this unit will be procured? If so, a complete set of directly reproducible manufacturing drawings and specifications would normally be included in this procurement. Comments:
В.	any more of this unit will be procured? No If so, a complete any more of this unit will be procured? If so, a complete any more of this unit will be procured?
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B	modified commercial item?  any more of this unit will be procured?  set of directly reproducible manufacturing drawings and specifications would normally be included in this procurement. Comments:  Will contract cover a period of more than 90 days?  If "yes", are progress reports desired?  quency, content and number of copies desired:
	modified commercial item?  any more of this unit will be procured?  set of directly reproducible manufacturing drawings and specifications would normally be included in this procurement. Comments:  Will contract cover a period of more than 90 days?  If "wes" are progress reports desired?  If so, indicate fre
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	will contract cover a period of more than 90 days?  If so, a complete set of directly reproducible manufacturing drawings and specifications would normally be included in this procurement. Comments:  Will contract cover a period of more than 90 days?  If "yes", are progress reports desired?  You If so, indicate fre quency, content and number of copies desired:
C.	will contract cover a period of more than 90 days?  If so, a complete set of directly reproducible manufacturing drawings and specifications would normally be included in this procurement. Comments:  Will contract cover a period of more than 90 days?  If "yes", are progress reports desired?  quency, content and number of copies desired:

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E. Is	any special tooling involved? No	
F. Se	curity: Association with the Sponsor is <u>CONFIDENTIAL</u>	
1.	Association with the I	
2.	. The specifications and/or drawings areUNCLASSIFIED	
	. The item isUNCIASSIFIED	-
3	. The item is UNCLASSIFIED	
4	. Contractor personnel known to be aware of this proposed procurement:	
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III Dage	sons for selection of this source. If other sources were considered, indies results. If no other sources were considered, list the reasons why this is considered to be uniquely qualified to perform this work.  This unit is similar to the counter previously developed for NPIC for on-line operation with the University of the computer. Since this item	25X1 ,
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III. Read cate	sons for selection of this source. If other sources were considered, indies results. If no other sources were considered, list the reasons why this is considered to be uniquely qualified to perform this work.  This unit is similar to the counter previously developed for NPIC for on-line operation with the University of the computer. Since this item	25X1 , 25X1

a reference to the item number to which the comment applies.

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## TECHNICAL BACKGROUND PROCUREMENT INFORMATION

В.	Evaluation of previous performance: <u>Frevious performance</u> has been highly satisfactory
Bri	ef description of this procurement: <u>Installation of encoders and the improve</u>
ali a c	ignment and higher precision mechanical components required to incorporate a comparator capability in the
Ą.	Deliverable items: Four (4) OPTISYN 2500 count encorders and additional
	engineering and alignment on the Model 552 prior to delivery
***************************************	
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В.	modified commercial item? Yes If "yes", is it anticipated that any more of this unit will be procured? No If so, a complete set of directly reproducible manufacturing drawings and specifications would normally be included in this procurement. Comments:
В.	any more of this unit will be procured? No If so, a complete set of directly reproducible manufacturing drawings and specifications
В.	modified commercial item? Yes If "yes", is it anticipated that any more of this unit will be procured? No If so, a complete set of directly reproducible manufacturing drawings and specifications would normally be included in this procurement. Comments:
B.	modified commercial item? Yes If "yes", is it anticipated that any more of this unit will be procured? No If so, a complete set of directly reproducible manufacturing drawings and specifications would normallybe included in this procurement. Comments:  Not necessary  Will contract cover a period of more than 90 days? Addition to existing or
	modified commercial item? Yes If "yes", is it anticipated that any more of this unit will be procured? No If so, a complete set of directly reproducible manufacturing drawings and specifications would normally be included in this procurement. Comments:  Not necessary  Will contract cover a period of more than 90 days? Addition to existing or If "yes", are progress reports desired? No If so, indicate for
	modified commercial item? Yes If "yes", is it anticipated that any more of this unit will be procured? No If so, a complete set of directly reproducible manufacturing drawings and specifications would normally be included in this procurement. Comments:  Not necessary  Will contract cover a period of more than 90 days? Addition to existing or If "yes", are progress reports desired? No If so, indicate for
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<b>.</b>	This is a modification to an engineering prototype instrument currently being fabricated at the contractors plant. It would be impractical to consider other sources for this portion of the work.
cat	e results. If no other sources were considered, list the reasons why this m is considered to be uniquely qualified to perform this work.
Re	asons for selection of this source. If other sources were considered, indi-
	effect at the vendors plant as a result of other contracts
	5. Other security information The required security procedures are in
١ .	
	4. Contractor personnel known to be aware of this proposed procurement:
	3. The item is UNCIASSIFIED
	2. The specifications and/or drawings are UNCIASSIFIED
	1. Association with the Sponsor is CONFIDENTIAL
F.	Security:
E.	Is any special tooling involved? No

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# Approved For Release 2002/09/03: CA-RDP78B04747A001300090014 964 TOC Dealing Research and Development

Project Approval Request

	I. Identification
25X1A	This project covers the installation of encoders and associated electronics along with the improved alignment and higher precision mechanical components required to incorporate a comparator mensuration capability in the Model 552 Point Transfer Device now under contract.
25X1	The Development Branch of Plans and Development Staff proposes to enter into firm fixed price contracts with Inc. at the level and with level and the level. This project is carried in the third quarter, Quarterly Review of Fiscal 1964 Development Program as item 20.
25X1	This Development will result in the Model 552 Point Transfer Device having broad additional capabilities as a highly versatile stereo-comparator approaching accuracies of 3 microns over distances under 1 mm. and 4 microns over distances up to 20 mm. The
-	Changing operational requirements and changes in mensuration philosophy within TAB/TID have made it expedient to incorporate a precision comparator capability into the Model 552 Point Transfer Device presently being fabricated at the vendor's plant. The rugged base casting and precision screws and ways chosen for the Model 552 are intrinsically well suited for comparator applications. Ideally, an ultra-high precision comparator should,

25X1A

comparator capabilities into the

Point Transfer Device.

25X1A

from its conception, be designed from "the-ground-up" for that purpose alone; however, there is an urgent requirement for a stereo-comparator, with high resolution optics, capable of effectively utilizing film in roll form. R & D lead times do not permit a new development with an early enough delivery date to meet current requirements; the refore, it is deemed expedient to incorporate

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	IV. Technical Specifications	
7 1X3؛	The 552 Point Transfer Device will be modified to incorporate an Automatic Comparator - Mensuration capability. This system will employ four (4) encoders directly attached to $2\frac{1}{2}$ mm pitch, precision encoders directly attached to $2\frac{1}{2}$ mm pitch, precision ground, ball lead screws on all four (4) axes. These encoders provide 2,500 counts per revolution, or a one micron bit size (least count) with an counts per revolution, or a one micron bit size (sexpected to approach the	
	accuracy count of f micron. The Model ) 12 12 12 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	
	A. $2\frac{1}{2}$ microns or $\frac{1}{4}$ microns for measurements over distances up	
	to 1 mm. B. $3\frac{1}{2}$ microns or $\frac{1}{2}$ 1 3/4 microns for measurements over distances	-
	up to 20 mm.  C. System Accuracy: $2\frac{1}{2}$ microns $\neq$ .005% over the distance travelled.  D. Overall system repeatability within 1 3/4 microns.	
	These figures do not include an additional $\frac{1}{2}$ count $(\frac{1}{4}$ micron) error within the encoder.	
25X1A	The majority of the cost of the proposal is for modifying the castings and other components to accommodate the encoders and for the ultra-precise alignment of the ways and screws to obtain the specified accuracies.	
25X1A 25X1A	All counters, displays and readout/recording equipment will be provided to as GFE through the proposed contract. will install the electronics in the Point Transfer Device to insure that proper working relationship are maintained between the electronic readout and Point Transfer Device.	25X1/
البيد	V. Contract and Financial Arrangements 25X1	
25X1 25X1A 25X1A	This project will be accomplished under a fixed price contract for with and with contract is covered by a price redeterminable (downward only clause and could ultimately result in lower cost. Since the required modifications to the Point Transfer Device are to be made during the initial fabrication of the Model 552, no other contractors were considered for that	25X1A
	contract.	

developed under an earlier contract and are not available elsewhere as

The electronics from

shelf items to fit this requirement.

25X1A

have been previously

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#### VI. Coordination

This development has been coordinated with the Technical Analysis Branch of the Technical Intelligence Division with respect to comparator requirements and with the Collateral Support Division regarding requirements for on-line operation.

#### VII. Security

Because of association with the sponsor, these contracts are to be classified Confidential, the required security measures are in effect at the vendor's plants from previous contracts.

25X1

25X1